



ALPHASONIK®

Owner's Manual

EQUALIZER
PEQ70E

ALPHASONIK WAS FOUNDED IN 1976 WITH ONE MISSION, TO BRING STATE OF THE ART PERFORMANCE TO THE CAR AUDIO ENTHUSIAST.

In those early years we pioneered such ground-breaking technologies as amplifier fan cooling and high voltage signal transfer which remain a benchmark in high-end audio.

Today, the new Alphasonik is committed to pushing the envelope with regard to technology, quality and value. Our electronics feature audiophile parts and circuit topology designed to let the full musical experience come through, loud and clear. Our loudspeakers employ the latest high technology materials and processes such as carbon reinforced woven glass and titanium vapor deposition to deliver your music with tremendous impact, dynamics and resolution.

We stand behind our quality with one of the best warranties in consumer electronics. Compare Alphasonik car audio products against anything competition has to offer. We're confident you will come to one conclusion...



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Thank you for purchasing this Alphasonik product. Alphasonik products are specifically engineered and designed for the mobile audio environment. This manual contains important information about installation, set-up procedures and integrating your new Alphasonik product into your vehicle. With proper care and installation, your new product will provide you with many years of high performance listening enjoyment. We recommend having an Authorized Alphasonik Dealer install your new product for optimal performance and to take advantage of our warranty program. Before installing your new product, please read through the manual to fully understand the application.

Before making any electrical connections, make sure that you disconnect the battery's ground cable to prevent the possibility of short circuits or damage to your electronic equipment. If your vehicle's stereo (head unit) comes with an Anti-theft code, DO NOT disconnect the battery. If you have the access code for the stereo (head unit), please refer to the vehicle's owner's manual.

There are basically three types of equalizers: graphic, parametric, and a hybrid of these two, often referred to as paragraphic. Additionally, there are passive equalizers, which have no gain, active gain pre-amps, which have a gain stage usually with a volume control, and booster equalizers which we won't consider here since they are inferior passive equalizers with inexpensive IC amplifier built-in.

As in state-of-the-art home audio systems the optimum system requires a dedicated pre-amp with enormous gain to drive the various power amplifiers. Since home audio amplifiers do not have adjustable sensitivity, they require a high output pre amplifier to drive them to maximum levels.

The unit is the first production pre amplifier to incorporate a specific bandwidth parametric equalizer with shelving control with 18dB boost or cut on its four bands, it can compensate for the four acoustic anomalies unique to the automotive environment. This unit easily becomes the "Mission control Center" of any high end automotive sound system.

SPECIFICATIONS	
7 BAND PARAMETRIC BOOST/CUT	50Hz, 125Hz, 315Hz, 750Hz, 2.2kHz, 6kHz, 12kHz 18dB
BANDWIDTH	Specific to each band-Hi Shelving
S/N RATIO	110dB Ref 1-Volt Input
FREQUENCY RESPONSE	10Hz -50kHz, +/-1dB
MAX OUTPUT VOLTAGE	9.75V RMS
T.H.D.	0.05%
INPUT SENSITIVITY	Adjustable 200mV - 3.5V RMS
HEADROOM	20dB
INPUT IMPEDANCE	20k Ohms
STEREO SEPARATION	80dB/1kHz
OPERATING VOLTAGE	11 - 15 Negative Ground
OUTPUT IMPEDANCE	1k Ohms
SUBWOOFER FREQUENCY	30Hz - 120Hz

FEATURES

1. Active gain pre amplifiers with adjustable input sensitivity.
2. Volume Control with up to 9.75 Volts RMS of output.
3. Individual left and right sensitivity control for Main/Aux.
4. Seven band parametric equalizer with 18dB boost.
5. Low noise BI-FET op-amp design yields minimum distortion.
6. On-board 30V bi-polar switching power supply.
7. Universal Half-DIN chassis for ease of installation.
8. High grade golden Tiffany RCA jack input/output.
9. Subwoofer level control
10. Subwoofer frequency adjustable
11. 20dB headroom eliminates signal overload.
12. Main/Aux (Radio/CD) input selector.
13. 2 color illumination design.

CROSSOVER CONTROL

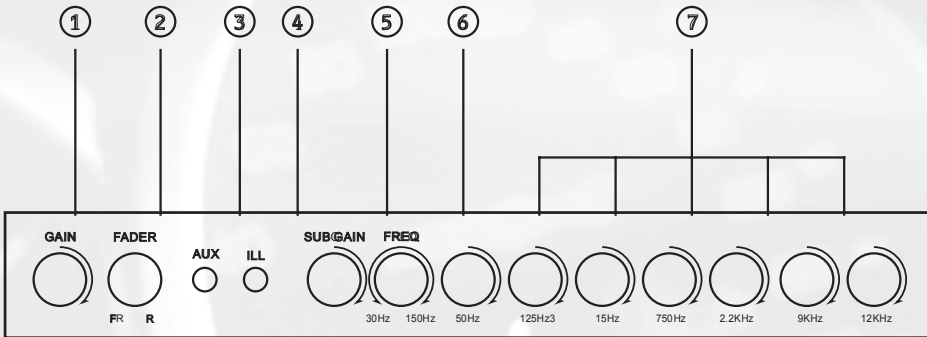
It is recommended that the MID BASS / MID / HI frequencies be set at center position and that the SUB frequency set at around 60Hz. One of the best features of this unit is that it allows the listener to adjust each band exactly to his/her own satisfaction. PLEASE NOTE: That the correct settings depend very much on the overall system itself and the individual musical taste of the listener. Please check the settings for each band carefully before completing the installation.

SET-UP ADJUSTMENT

Before Turning On: Turn the unit volume to minimum, adjust the input gains to minimum, Turn the source unit volume to minimum, Set EQ controls to flat (12 o'clock).

System Turn On: After completing all wiring and signal connections you can now turn the system on.

Adjust: Raise volume of the unit to maximum. Adjust left and right input gains of the unit until half way between minimum and maximum. Gradually increase source volume until clipping occurs. Begin gradually increasing input gains until distortion is audible, then reduce slightly, system should be extremely loud at this point. Turn the volume control down to minimum and back up to comfortable level.



1. GAIN CONTROL:

This control adjusts the output level.

2. FADER CONTROL:

This control adjusts the volume between the front and rear speakers in a 4-speaker system.

3. INPUT SELECTOR SWITCH:

This switch selects the Main/Aux (Radio/CD) input.

4. BACK LIGHT ILLUMINATION SWITCH:

Orange or Red.

5. SUBWOOFER LEVEL:

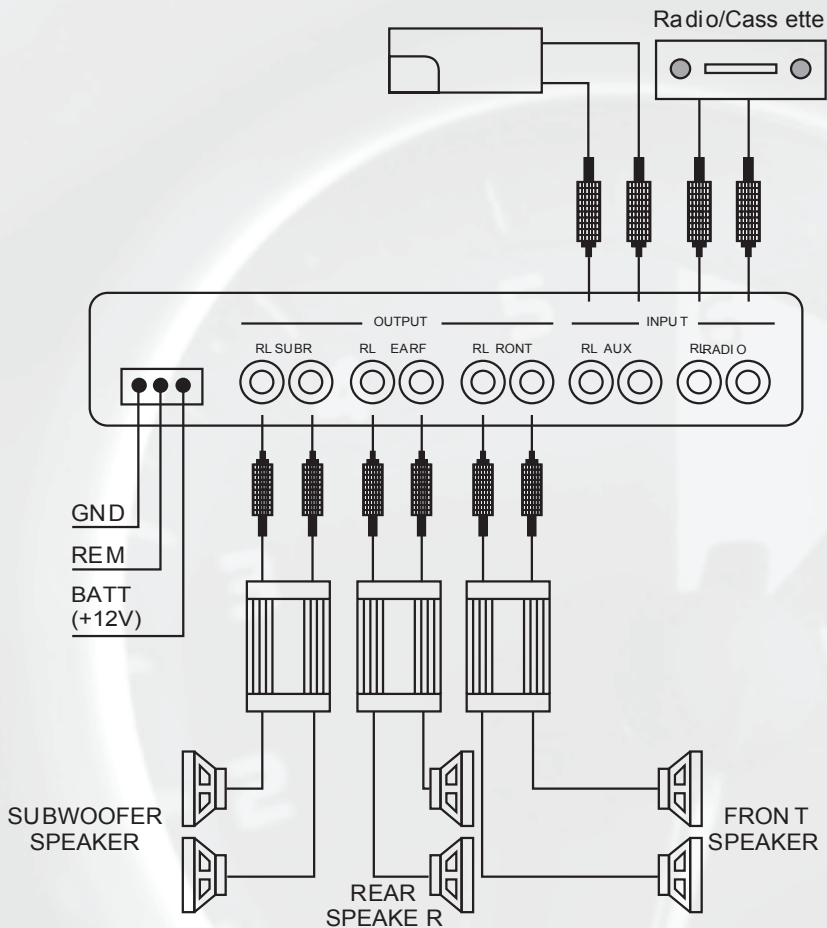
Controls the Subwoofer level.

6. SUB FREQUENCY:

This control adjusts subwoofer frequency from 30Hz to 120Hz.

7. PARAMETRIC EQUALIZER CONTROLS:

Control the frequency response of the boost or cut, with the 7 band controls: 50Hz, 125Hz, 315Hz, 750Hz, 2.2kHz, 6kHz, 12kHz.



NOTES: Set your source volume at one-half to three quarter up and leave it in it's position.

Always use your volume as a master (main) volume control. It has better electronics, higher S/N ratio and is more linear than any source unit volume available. If engine noise is audible, try raising the volume on the source unit, and/or check the ground connection on the unit.

Investigate the layout of your vehicle thoroughly before drilling or cutting. Take care when you work near the gas tank, gas lines, hydraulic lines, electrical components and electrical wiring. Do not use the equipment unmounted. Attach this system securely to prevent damage, particularly in the event of an accident or aggressive driving. Do not mount the system so that wire connections are unprotected or are subjected to pinching or damage from nearby objects. Before connecting or disconnecting power connections at the system power terminals, disconnect the +12V DC wire at the battery end. Confirm that your source unit and other equipment are turned off while connecting the input terminals. If you need to replace the power fuse, replace it only with a fuse identical to the provided fuse. Using a fuse of different type or rating may result in damage to the system, which is not covered by the manufacturer's warranty. Do not install any product where it may be subjected to excessive heat, moisture and dust or where it may be repeatedly kicked, brushed or bumped. Make absolutely sure that the terminals for the products are connected to the proper inputs and outputs from the music source. Never run the wiring on the outside of the vehicle or under it where it can be damaged by road hazards or any moving parts of the vehicle. Use existing wire channels, sills, panels and molding strips inside the vehicle to hide the wiring for safety and a neat appearance.

DISCLAIMER

IMPORTANT: Never cut any metal that is an integral part of the vehicle's safety or structural support system. If you are unsure, it is best to have the product professionally installed by an Authorized Alphasonik Dealer. Never sacrifice your safety for sound.

Alphasonik, Inc. warrants this product against all defects in material and workmanship for a period of one (1) year from the date of original purchase provided it was purchased from an Authorized Alphasonik, Inc. Dealer.

The conditions of this warranty and the extent of the responsibility of Alphasonik, Inc. under this warranty are as follows:

1. DATED PROOF OF PURCHASE IS REQUIRED FOR WARRANTY SERVICE OF THIS PRODUCT. Information about Alphasonik, Inc. authorized warranty service may also be obtained at www.alphasonikinc.com or by contacting or writing Alphasonik, Inc. at the address listed on the back of this booklet.

2. This warranty will become void if service is performed by any one other than an approved Alphasonik, Inc. Warranty Service Center.

3. This warranty does not apply to any product which has been subjected to misuse, neglect or accident, or which has had the warranty seal broken, serial number altered, defaced or removed, or which has been connected, installed adjusted or repaired other than in accordance with the instructions furnished by Alphasonik, Inc.

4. This warranty does not cover car static, electrical interference, adjustments or labor costs for the removal or reinstallation of the unit for repair.

5. The sole responsibility of Alphasonik, Inc. under this warranty shall be limited to the repair or replacement thereof, at the sole discretion of Alphasonik, Inc.

6. If it becomes necessary to send the product or any defective part to Alphasonik, Inc. or an authorized service station, the product must be shipped in its original or equivalent carton, fully insured, with shipping charges prepaid. Alphasonik, Inc. will not assume any responsibility for any loss or damage incurred in shipping.

7. This warranty is not transferable and protects the original purchaser provided they reside and made their purchase in the United States. International consumers may contact their local retailer or distributor for warranty information.

8. ALL IMPLIED WARRANTIES, EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, SHALL HAVE NO GREATER DURATION THAN THE WARRANTY PERIOD SET FORTH ABOVE. UNDER NO CIRCUMSTANCES SHALL ALPHASONIK INC. BE LIABLE FOR ANY LOSS OR DAMAGE, DIRECT OR CONSEQUENTIAL, ARISING OUT OF THE USE OR INABILITY TO USE THE PRODUCT. BECAUSE SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR EXCLUSIONS OR LIMITATIONS OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.

9. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE.

10. Should you have any difficulties with the performance of this product during warranty or with any Alphasonik, Inc. authorized service center, you may contact the Alphasonik, Inc. National Service Manager at the address listed on the back of the booklet card or call 714.670.8950 for a listing of Authorized Warranty Service Centers in your area.

INSTALLED WARRANTY

(When purchased from and installed by an Authorized Alphasonik, Inc. Dealer)

Speaker and Accessories: 1-year over-the-counter defective exchange plus 1-year repair or replacement at the sole discretion of Alphasonik, Inc.

Electronics: 1-year over-the-counter defective exchange, plus 1-year repair or replacements at the sole discretion of Alphasonik, Inc.

An Alphasonik Extended Warranty Registration Card must be submitted to Alphasonik, Inc. within 30 days of purchase. To process any warranty claim, Alphasonik, Inc. will require the dated proof of purchase, which must specifically show the model and serial number and that installation was provided for the product in question. All other terms per Alphasonik, Inc.'s standard one-year warranty apply.



ALPHASONIK®

PROUD MEMBER OF



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